



RAW SEQUENCE LISTING DATE: 12/19/2001 PATENT APPLICATION: US/09/938,703 TIME: 12:44:35

Input Set : N:\Crf3\RULE60\09938703.txt
Output Set: N:\CRF3\12192001\I938703.raw

SEQUENCE LISTING

	SEQUENCE LISTING
	(1) GENERAL INFORMATION:
5	(i) APPLICANT: SAMSON, MICHEL
6	
7	VASSART, GILBERT
8	LIBERT, FREDERICK
10	(ii) TITLE OF INVENTION: ACTIVE AND INACTIVE CC-CHEMOKINES RECEPTOR
11	AND NUCLEIC ACID MOLECULES ENCODING SAID RECEPTOR
13	(iii) NUMBER OF SEQUENCES: 17
15	(iv) CORRESPONDENCE ADDRESS:
16	(A) ADDRESSEE: Knobbe, Martens, Olson & Bear
17	(B) STREET: 620 Newport Center Drive 16th Floor
18	
19	(D) STATE: CA
20	(E) COUNTRY: U.S.A.
21	(F) ZIP: 92660
23	(V) COMPUTER READABLE FORM:
24	· ·
25	• • • • • • • • • • • • • • • • • • • •
26	
27	· ·
29	· ·
C> 30	· ·
C> 31	
32	• •
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42	, ,
43	, ,
44	
45	(C) REFERENCE/DOCKET NUMBER:
47	
49	(i) SEQUENCE CHARACTERISTICS:
50	(A) LENGTH: 792 base pairs
51	
52	(C) STRANDEDNESS: single
53	, ,
55	(ii) MOLECULE TYPE: DNA (genomic)
58	(ix) FEATURE:
59	(A) NAME/KEY: CDS
60	(B) LOCATION: 240791
63	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
	(XI) SEQUENCE DESCRIPTION: SEQ ID NO: 1: -GAATTCCCCC - AACAGAGCCA - AGCTCTCCAT CTAGTGGACA GGGAAGCTAG CAGCAAACCT 60
	TCCCTTCACT ACAAAACTTC ATTGCTTGGC CAAAAAGAG GTTAATTCAA TGTAGACATC 120
	TATGTAGGCA ATTAAAAACC TATTGATGTA TAAAACAGTT TGCATTCATG GAGGGCAACT 180
80	AAATACATTC TAGGACTTTA TAAAAGATCA CTTTTTATTT ATGCACAGGG TGGAACAAG 239





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71	1	изр	TYL	GIII	5	261	261	FIO	116	10	rsb	116	ASII	ıyı	15	1111	
									GTG								335
73 74	Ser	Glu	Pro	Cys 20	Gln	Lys	Ile	Asn	Val 25	Lys	Gln	Ile	Ala	Ala 30	Arg	Leu	
									TTC								383
	Leu	Pro		Leu	Tyr	Ser	Leu		Phe	Ile	Phe	Gly	Phe 45	Val	Gly	Asn	
77 78	ATG	СТС	35 GTC	ATC	СТС	АТС	СТС	40 ATA	AAC	TGC	AAA	AGG		AAG	AGC	ATG	431
									Asn								
80		50					55			-	-	60		-			
									GCC								479
		Asp	Ile	Tyr	Leu		Asn	Leu	Ala	Ile		Asp	Leu	Phe	Phe		
83	65 Стт	аст	GTC	CCC	ጥጥር	70 TGG	CCT	CAC	TAT	CCT	75 GCC	GCC	CAG	тсс	GAC	80 •••••	527
									Tyr								327
86					85				-1-	90					95		
87	GGA	AAT	ACA	ATG	TGT	CAA	CTC	$\mathbf{T}\mathbf{T}\mathbf{G}$	ACA	GGG	CTC	TAT	TTT	ATA	GGC	TTC	575
	Gly	Asn	Thr		Cys	Gln	Leu	Leu		Gly	Leu	\mathtt{Tyr}	Phe		Gly	Phe	
89	mma	mam	CCA	100	mma	mma	a mc	» m.c	105	CITIC .	202	3 m.C	CAM	110	ma a	CITIC	623
									CTC Leu								023
92	1110	DCI	115	110	1110	1 110	110	120	ДСИ	шец	1111		125	**** 9	-1-	Dea	
	GCT	GTC	GTC	CAT	GCT	GTG	TTT		TTA	AAA	GCC	AGG	ACG	GTC	ACC	TTT	671
94	Ala	Val	Val	His	Ala	Val	Phe	Ala	Leu	Lys	Ala	Arg	Thr	Val	Thr	Phe	
95		130	ama			aa	135	3 Gm	maa	ama	ama.	140	ama	mmm	999	mam	710
									TGG Trp								719
	145	Val	vai	1111	261	150	116	1111	тър	Val	155	Ата	Vai	FILE	AIG	160	
		CCA	GGA	ATC	ATC		ACC	AGA	TCT	CAA		GAA	GGT	CTT	CAT		767
100) Lei	ı Pro	o Gly	y Ile	e Ile	Phe	e Thi	Arg	g Sei	Glr	ı Lys	Glu	ı Gly	, Le	ı His	s Tyr	
101					165					170)				175	5	
				C TC													792
104		L Cys	s ser	r Sei 180		PIIC	; PIC	, TÅ1	_								
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111				(B) :													
112 113				(C) S (D) T					ıgıe								
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119		•	. ((A) 1	NAME,												
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123		•	•						SEQ				· N· N· / · ·	ירי א חוד	(1) (1)	7 X X 7 7 7 111	
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	127 TATGTAGGCA ATTAAAAACC TATTGATGTA TAAAACAGTT 128 AAATACATTC TAGGACTTTA TAAAAGATCA CTTTTTATTT																			
									ATC								239 287			
																	207			
		ASP	TÄT	GTII		ser	ser	PIO	Ile	10	ASP	TTE	ASII	тут		THE				
131	1	030	000	maa	5	222	» ma	3 3 M	CMC		CD 2	3 m/d	CON	000	15	OTH C	225			
									GTG								335			
	ser	GIU	Pro		GIN	гаг	тте	ASn	Val	гàг	GIN	тте	Ата		Arg	Leu				
134	ama		000	20	m	ma.	ama	ата	25				mm	30	222		202			
									TTC								383			
	Leu	Pro		ьeu	Tyr	ser	ьeu		Phe	тте	Pne	GLY		vaı	GIY	Asn				
137		ama	35	. ma	OT 0		ama	40		maa		3.00	45			3 m.c	422			
									AAC								431			
	мет		vaı	тте	Leu	TTE		ire	Asn	Cys	гăг		ьeu	ьуs	ser	мет				
140		50		a	ama	ama	55	ama	000		m.a.m	60	ama.		mm.a		470			
									GCC								479			
		Asp	тте	Tyr	Leu		Asn	ьеи	Ala	тте		Asp	Leu	Pue	Pne					
143	65				~~a	70	~~~	a. a			75		a. a		a. a	80	507			
									TAT								527			
	Leu	Thr	Val	Pro		Trp	Ala	His	Tyr		Ala	Ala	GIn	Trp		Phe				
146					85					90					95					
									ACA								575			
	GLY	Asn	Thr		Cys	Gln	Leu	Leu	Thr	GLY	Leu	Tyr	Phe		GLY	Phe				
149				100				_	105					110						
									CTC								623			
	Phe	Ser	-	Ile	Phe	Phe	Ile		Leu	Leu	Thr	Ile	-	Arg	\mathtt{Tyr}	Leu				
152			115					120					125							
									TTA								671			
	Ala		Val	His	Ala	Val		Ala	Leu	Lys	Ala		Thr	Val	Thr	Phe				
155		130					135					140					=4.0			
									TGG								719			
		Val	Val	Thr	Ser		Ile	Thr	\mathtt{Trp}	Val		Ala	Val	Phe	Ala					
158						150					155					160				
									TCT								767			
	Leu	Pro	GLY	Ile		Phe	Thr	Arg	Ser		Lys	GLu	GLY	Leu		Tyr				
161					165					170					175		0.4 F			
									AGT								815			
	Thr	Cys	ser		His	Phe	Pro	Tyr	Ser	GIn	Tyr	GIn	Phe	_	Lys	Asn				
164				180					185					190			0.60			
									TTG								863			
	Phe	GIn		Leu	Lys	ile	Val		Leu	GLY	Leu	Val		Pro	Leu	Leu				
167			195					200				_	205							
									ATC								911			
	Val		Val	Ile	Cys	\mathtt{Tyr}		Gly	Ile	Leu	Lys		Leu	Leu	Arg	Cys				
170		210		- - -			215					220					A			
									GCT								959			
	_	Asn	Glu	Lys	Lys	_	His	Arg	Ala	Val		Leu	Ile	Phe	Thr					
173			_			230					235	_	_			240				
									GCT								1007			
175	Met	Ile.	Val	Tyr	-Phe-	-Leu-	Phe	Trp	Ala	Pro	Tyr	Asn	Ile	Val	Leu	Leu				





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176					245					250					255		1055
	CTG																1055
	Leu	Asn	Thr		GIn	GIu	Pne	Pne	_	Leu	Asn	Asn	Cys		ser	ser	
179				260				a. a	265				amm	270	3.50		1100
	AAC																1103
	Asn	Arg		Asp	GIN	Ата	мет		vaı	Inr	GIU	Inr		GIY	мет	Tnr	
182	~~ ~		275					280					285				
	CAC																1151
	His	_	Cys	ше	Asn	Pro		тте	Tyr	Ala	Pne		GIY	GLu	Lys	Pne	
185		290		000		a=a	295	mm.a			010	300	000		000	mma	1100
	AGA																1199
	Arg	Asn	туг	ьeu	Leu		Pne	Pue	GIN	ьys		тте	Ата	гÀг	Arg		
	305		maa	mam	mam	310	mma	a. a	63.3	~~~	315	000	~~~		a a.	320	1047
	TGC																1247
	Cys	ьуs	Cys	Cys		тте	Pne	GIn	GIn		Ата	Pro	GIU	Arg		ser	
191					325					330				ama	335		1005
	TCA																1295
	Ser	vaı	туr		Arg	ser	Thr	GIA		GIn	GLu	тте	ser		GLY	Leu	
194				340					345		amma	maai		350			1255
																TTTTCA	1355
																CTGTTA	1415
		IGGG'	ICT A	AAGA'	rrca:	rc CA	ATTT	ATTT	e GCA	ATCTO	jΤΤΤ	AAA	TAG	ATT A	AGAT	CCGAAT	1475
														1477			
201 (2) INFORMATION FOR SEQ ID NO: 3:																	
	203 (i) SEQUENCE CHARACTERISTICS:																
	204 (A) LENGTH: 1442 base pairs 205 (B) TYPE: nucleic acid																
205																	
206				-			ESS:		те								
207 209		, , , , ,	-	•			line		omi e	~ \							
212				ATURI		IPE:	DNA	(ger	nomic	-)							
213		(TX)		A) NA		rrv.	CDG										
213			•	•	•		240	88/	1								
217		/vi \	•						SEQ]	א מו) · 3						
	CAAT												אמכריי	מאם מ	מבר ז	AAACCT	60
																GACATC	120
																SCAACT	180
																ACAAG	239
	ATG																287
	Met																207
225	1	изъ	1 Y 1	GIII	741	501	DCI	110	110	10	пор	110	non	- Y -	15	1111	
	TCG	GAG	CCC	TGC	440	ΔΔΔ	ልጥሮ	די בי ב	GTG		CAA	ΔͲሮ	GCA	GCC		CTC	335
	Ser																555
228	DCI	OIU	110	20	0111	טעם	110	11511	25	כעם	0111	110	niu	30	**** 9	LCu	
	CTG	ССТ	CCG		TAC	ΤСЪ	СТС	GTG		ልጥሮ	ጥጥጥ	GGT	ተጥተ		GGC	AAC	383
	Leu																303
231	Leu	110	35	Deu	- 1 -	JCI	1JC U	40	1 116	116	1 110	O T Y	45	7 44 1	U T Y	11011	
	ATG	CTG		ΑΤС	CTC	ΑΤС	СТС		AAC	ፐርር	ΔΔΔ	AGG		AAG	AGC	ATG	431
	Met																
										-1-	-1-	5		-1-			





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234		50					55					60					
235	ACT	GAC	ATC	TAC	CTG	CTC	AAC	CTG	GCC	ATC	TCT	GAC	CTG	TTT	TTC	CTT	479
236	Thr	Asp	Ile	Tyr	Leu	Leu	Asn	Leu	Ala	Ile	Ser	Asp	Leu	Phe	Phe	Leu	
237	65					70					75					80	
238	CTT	ACT	GTC	CCC	TTC	TGG	GCT	CAC	TAT	GCT	GCC	GCC	CAG	TGG	GAC	TTT	527
239	Leu	Thr	Val	Pro	Phe	Trp	Ala	His	Tyr	Ala	Ala	Ala	Gln	\mathtt{Trp}	Asp	Phe	
240					85					90					95		
241	GGA	AAT	ACA	ATG	TGT	CAA	CTC	TTG	ACA	GGG	CTC	TAT	TTT	ATA	GGC	TTC	575
242	Gly	Asn	Thr		Cys	Gln	Leu	Leu		Gly	Leu	\mathtt{Tyr}	Phe		Gly	Phe	
243				100					105					110			
															TAC		623
	Phe	Ser	_	Ile	Phe	Phe	Ile		Leu	Leu	Thr	Ile	_	Arg	Tyr	Leu	
246			115					120					125				681
															ACC		671
	Ala		va⊥	HIS	Ala	vaı		Ата	Leu	ьys	Ala	_	Thr	Val	Thr	Pne	
249	000	130	ama	3.03	3.00	ama.	135	3.00	maa	O TO C	a ma	140	аша	mmm	000	mam	710
				-											GCG		719
	145	vai	Val	THE	ser	150	тте	THE	ттр	Val	155	Ата	Val	Phe	Ala	160	
		CCA	CCA	N m C	A THIC		200	אכא	тст	מאס		C 2 2	ССТ	Cmm	CAT		767
															His		707
255	ьеи	PIO	GIY	116	165	FIIE	1111	AIG	Ser	170	БУЗ	Giu	СТУ	пеп	175	ıyı	
	λCC	TGC	ACC	ጥርጥ		ጥጥጥ	CCA	πас	Σmm		СДТ	ΔСΤ	СУТ	СФФ	GGG	CCT	815
															Gly		013
258		010	001	180		- 110	110	-1-	185	ביים	ор	501		190	011		
	GGT	CCT	GCC		GCT	TGT	CAT	GGT		CTG	СТА	CTC	GGG		CCT	AAA	863
															Pro		
261	1		195			-1-		200					205			-1 -	
262	AAC	TCT	GCT	TCG	GTG	TCG	AAA	TGAC	GAAG	AAG A	AGGC	ACAG	G C	rgtg2	AGGC	Г	914
263	Asn	Ser	Ala	Ser	Val	Ser	Lys										
264		210					215										
265	TATO	CTTC	ACC A	ATCA	[GAT]	rg Ti	TAT	rttC1	CT:	rctg(GCT	CCC	[ACA	ACA :	TTGT(CCTTCT	974
266	CCTC	GAAC	ACC 1	rtcc <i>i</i>	AGGAZ	T TA	CTTTC	GCCI	r GA	AATA	rtgc	AGT	AGCT	CTA A	ACAGO	GTTGGA	1034
267	CCA	AGCT	ATG (CAGG	rgac <i>i</i>	AG AC	SACT	CTTGC	GA:	rgac(GCAC	TGC	rgca:	rca a	ACCC	CATCAT	1094
268	CTAT	rgcc:	TTT (GTCG	GGA	SA AC	STTC	AGAAZ	A CT	ACCT	CTTA	GTC:	TCT:	rcc z	AAAA	GCACAT	1154
																AGCAAG	1214
																CGGACT	1274
																AGCCTG	1334
															GGGT	CTAAGA	1394
								raaa(GATT	AGAT	CCG	ATTO	2			1442
	(2)							NO: 4									
278		(1)						ISTIC		. _							
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283 285				LECUI			_		י סשיב	ייג רו	. 4						
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288	Met 1	- Ash	TAT	GIII	<u>vai</u> 5	Ser	Ser	FIO	TTG	10	<u>roħ</u>	_1_15_	-usii-	- 	15	1111	
200	1				,					10					10		





DATE: 12/19/2001

TIME: 12:44:36

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/938,703

Input Set : N:\Crf3\RULE60\09938703.txt Output Set: N:\CRF3\12192001\1938703.raw

L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

L:418 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=7

L:462 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7

L:477 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=8

 $L\!:\!509~M\!:\!341~W\!:$ (46) "n" or "Xaa" used, for SEQ ID#:8 $L:521\ M:341\ W:$ (46) "n" or "Xaa" used, for SEQ ID#:8

L:536 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=9 L:595 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=10

L:617 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 L:639 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10